"A hidden connection is stronger than an apparent one." –Heraclitus

The Trivial Notions Seminar
Proudly Announces

Pseudofinite Sets

A talk by

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Abstract

The regular ultrapower construction is a lens for looking at the relationship between finite and infinite combinatorics. Ultrapowers produce large generic extensions of a given object which exaggerate certain features and suppress others, but it is a deep question to determine which families of features can be separated in this way. I'll sketch techniques due to Shelah and Kunen for constructing regular ultrapowers which vary the sizes of certain sets and the cuts realized in models of linear orders, and explain the connection to classification theory. Little to no prior knowledge of model theory or ultraproducts will be assumed.

Thursday, December 4th at 2:07 pm
Science Center 507